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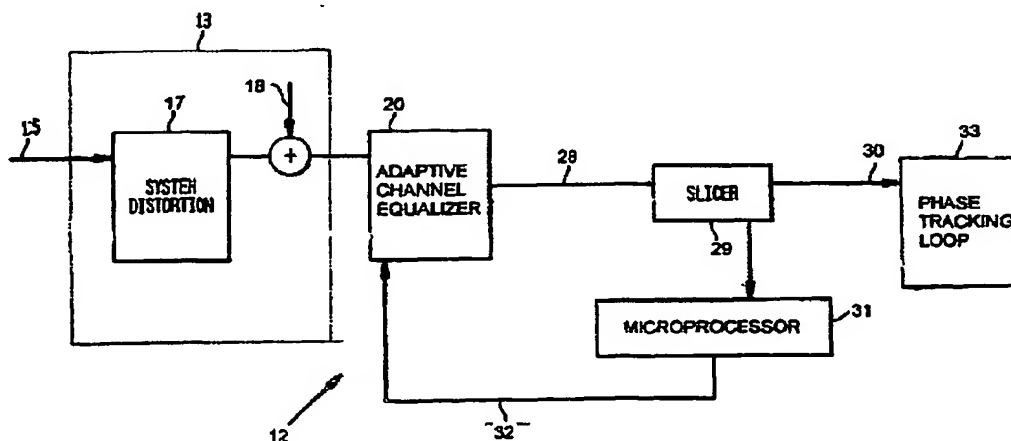
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **EQUALIZER STATUS MONITOR**



(57) Abstract: A system for monitoring the output (28) of an adaptive channel equalizer (20) in order to determine if convergence has been achieved. A slicer (29) samples data from the equalizer (20) during a predetermined period. The output data (30) from the slicer (29) is forwarded to a microprocessor (31) in order to apply a test standard to the slicer data. For example, if one of every possible transmitted symbol is detected by the microprocessor (31), convergence is assumed to have occurred. If the test criterion is not met, a reset signal (32) is sent to the equalizer (20).

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/11002

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : H03H 7/30 US CL : 375/229 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 375/229, 232, 233, 350; 708/322  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,781,463 A (OGAWA et al.) 14 July 1998, see figure 8	1-3, 11, 12, 18, 19, 21 and 23
A	US 6,215,818 B1 (VELEZ et al.) 10 April 2001, all	1-23
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
<b>* Special categories of cited documents:</b>		
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 23 June 2003 (23.06.2003)	Date of mailing of the international search report 11 JUL 2003	
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**INTERNATIONAL SEARCH REPORT**

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**Continuation of B. FIELDS SEARCHED Item 3:**

**EAST**

search terms: VSB, equalizer, slicer, convergence